

# KANSAS

## Science and Engineering Profile

|                                    | Kansas   | U.S.        | Rank |  | Kansas  | U.S.      | Rank |
|------------------------------------|----------|-------------|------|--|---------|-----------|------|
| Doctoral scientists, 1993          | 3,124    | 430,332     | 35   | Total R&D performance, 1993 (millions)   | \$463   | \$161,427 | 36   |
| Doctoral engineers, 1993           | 515      | 81,293      | 34   | Industry R&D, 1993 (millions)            | \$292   | \$117,622 | 34   |
| S&E doctorates awarded, 1993       | 240      | 25,409      | 30   | Academic R&D, 1993 (millions)            | \$154   | \$19,489  | 32   |
| of which, in life sciences         | 34%      | 24%         |      | of which, in life sciences               | 62%     | 55%       |      |
| in engineering                     | 19%      | 22%         |      | in engineering                           | 13%     | 16%       |      |
| in psychology                      | 14%      | 13%         |      | in physical sciences                     | 7%      | 11%       |      |
| S&E postdoctorates, 1993           |          |             |      | Higher education current-fund            |         |           |      |
| in doctorate-granting institutions | 294      | 34,394      | 26   | expenditures, 1993 (millions)            | \$1,487 | \$163,994 | 32   |
| S&E graduate students, 1993        |          |             |      | Number of SBIR awards, 1990-93           | 24      | 13,995    | 40   |
| in doctorate-granting institutions | 5,482    | 438,128     | 27   | Patents issued to state residents, 1994  | 272     | 56,039    | 34   |
| Population, 1994 (000s)            | 2,554    | 260,341     | 32   | Gross state product, 1992 (billions)     | \$56.2  | \$5,994.1 | 31   |
| Civilian labor force, 1994 (000s)  | 1,331    | 131,013     | 31   | of which, agriculture                    | 5%      | 2%        |      |
| Personal income per capita, 1994   | \$20,896 | \$21,809    | 24   | manufacturing, mining, construction      | 23%     | 23%       |      |
| Federal spending                   |          |             |      | transportation, communication, utilities | 11%     | 9%        |      |
| Total expenditures 1994 (millions) | \$12,506 | \$1,284,896 | 33   | wholesale and retail trade               | 17%     | 16%       |      |
| R&D obligations 1993 (millions)    | \$88     | \$65,394    | 41   | finance, insurance, real estate          | 15%     | 18%       |      |
|                                    |          |             |      | services                                 | 16%     | 20%       |      |
|                                    |          |             |      | government                               | 13%     | 12%       |      |

Rankings and totals are based on data for the 50 States and D.C.

## Federal Obligations for Research and Development in Kansas by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

|   | Total  | Federal intramural | All FFRDCs | Industrial firms | Universities & colleges | Other nonprofits | State & local government | State rank |
|---|--------|--------------------|------------|------------------|-------------------------|------------------|--------------------------|------------|
| <b>Total, all agencies</b>                  | 87,858 | 12,198             | 0          | 18,191           | 50,399                  | 5,269            | 1,801                    | 41         |
| <b>Department of Agriculture</b>            | 10,861 | 4,687              | 0          | 0                | 6,174                   | 0                | 0                        | 38         |
| <b>Department of Commerce</b>               | 0      | 0                  | 0          | 0                | 0                       | 0                | 0                        | na         |
| <b>Department of Defense</b>                | 20,171 | 2,751              | 0          | 15,010           | 2,410                   | 0                | 0                        | 39         |
| <b>Department of Energy</b>                 | 5,275  | 0                  | 0          | 1,489            | 3,786                   | 0                | 0                        | 39         |
| <b>Dept. of Health &amp; Human Services</b> | 30,760 | 0                  | 0          | 1,124            | 27,570                  | 1,311            | 755                      | 36         |
| <b>Department of the Interior</b>           | 5,027  | 4,759              | 0          | 0                | 129                     | 0                | 139                      | 39         |
| <b>Department of Transportation</b>         | 1,912  | 0                  | 0          | 5                | 1,000                   | 0                | 907                      | 29         |
| <b>Environmental Protection Agency</b>      | 1      | 0                  | 0          | 1                | 0                       | 0                | 0                        | 51         |
| <b>Nat'l Aeronautics &amp; Space Admin.</b> | 6,585  | 1                  | 0          | 562              | 2,064                   | 3,958            | 0                        | 33         |
| <b>National Science Foundation</b>          | 7,266  | 0                  | 0          | 0                | 7,266                   | 0                | 0                        | 39         |
| <b>State rank</b>                           | 41     | 48                 | na         | 37               | 35                      | 32               | 34                       |            |

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.